Amendments to the Claims

This listing of claims will replace all prior versions and listing of claims in the application.

Please cancel claims 1 to 40, 42-46 and 48-53 without prejudice or disclaimer.

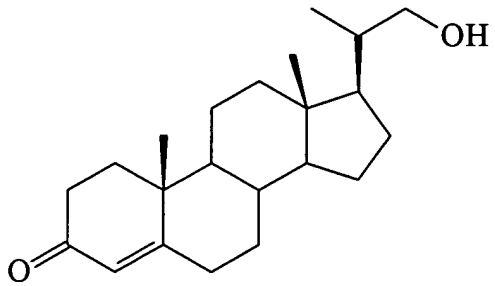
Please amend claims 41 and 47 as set forth below.

Please add new claims 54-68 as set forth below.

1-40. (canceled)

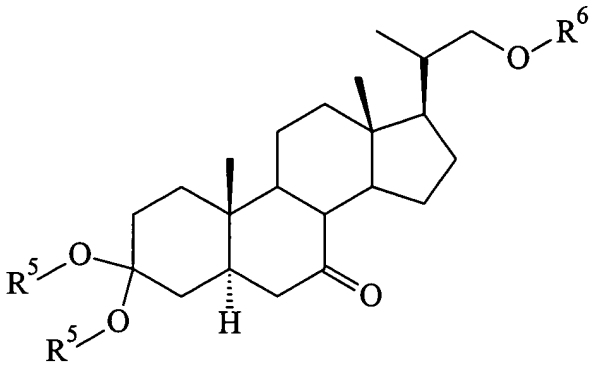
41. (currently amended): A method for preparing ~~producing an aminosterol compound selected from the group consisting of~~ squalamine~~, compound 1436,~~ and salts thereof, ~~the method~~ comprising:

converting, under sufficient conditions, a compound **of** ~~according to~~ formula 21 ~~as follows:~~



(21)

to a compound **of** ~~according to~~ formula 125 ~~125:~~



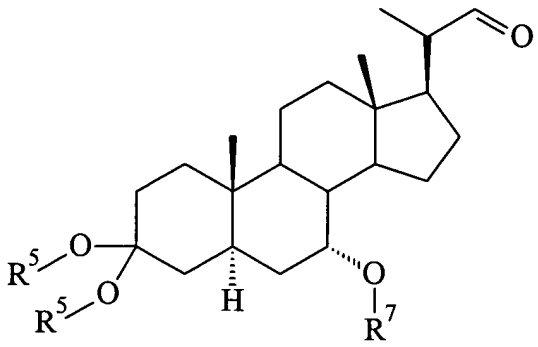
(125),

wherein

the R^5 groups are suitable protecting groups that can be the same or different, or the R^5 groups can join together to form a ring structure, and

R^6 is a suitable protecting group;

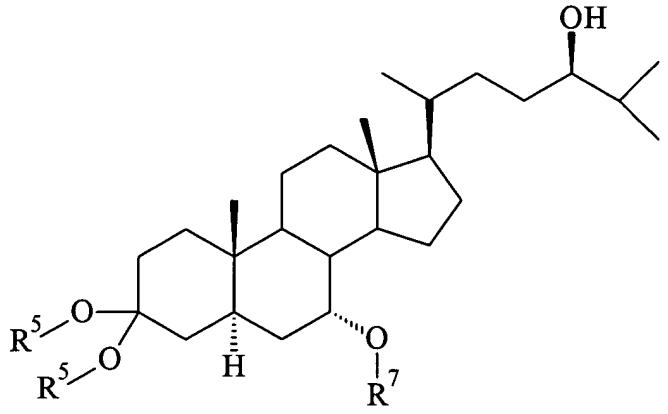
converting, under sufficient conditions, **the** ~~a~~ compound **of formula 125 to a compound of** ~~according to~~ formula **129** ~~129:~~



(129),

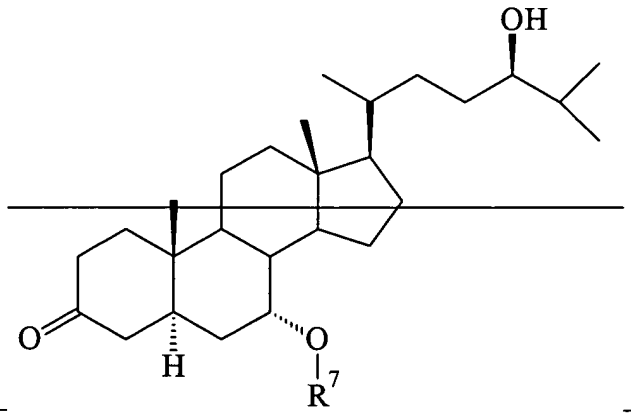
wherein ~~the R^5 groups are suitable protecting groups that can be the same or different, or the R^5 groups can join together to form a ring structure, and~~ R^7 is a suitable protecting **group;** ~~group,~~

converting, under sufficient conditions, the compound of formula 129 to a compound **of** ~~according to~~ formula **134** ~~134:~~



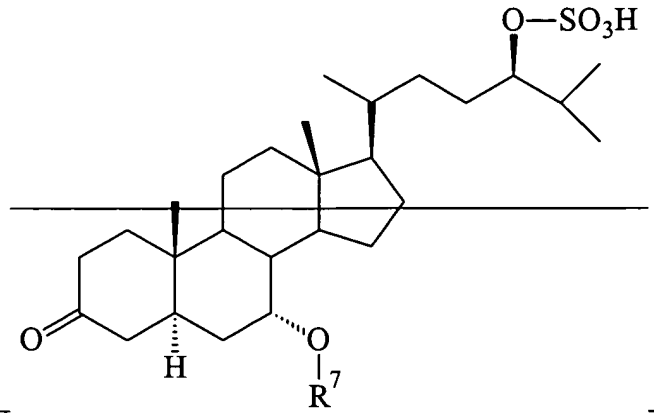
(134);

~~converting, under sufficient conditions, the compound according to formula 134 to a compound according to formula 135:~~



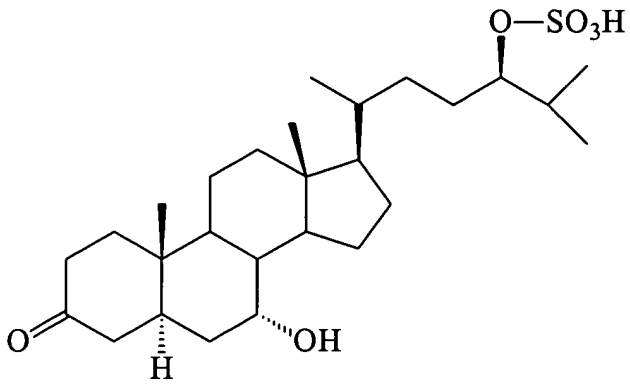
~~(135);~~

~~converting, under sufficient conditions, the compound according to formula 135 to a compound according to formula 136:~~



~~(136);~~

converting, under sufficient conditions, the compound **of** ~~according to~~ formula **134** ~~136~~ to ~~a~~ compound ~~according to formula~~ **37** ~~37:~~



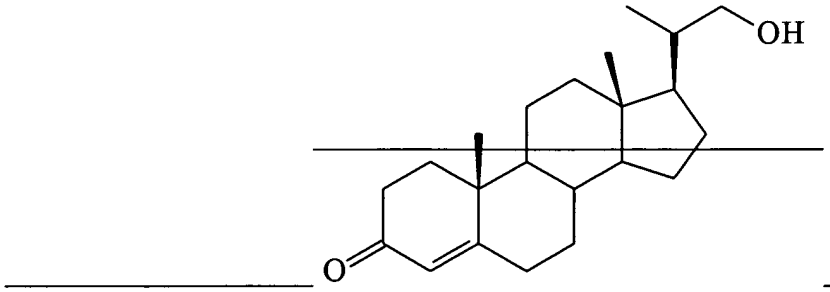
(37); and

converting, under sufficient conditions, the compound ~~according to formula~~ 37 to squalamine~~, compound 1436,~~ or a salt thereof.

42-46. (canceled)

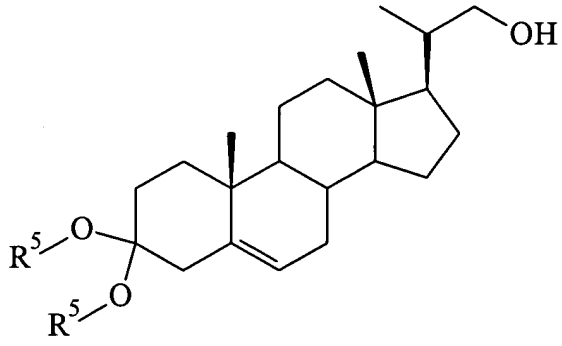
47. (currently amended): **The** ~~A~~ method according to claim 41, wherein the compound **of formula 21 is converted to the compound of formula 125 by** ~~according to formula 129 is produced as follows:~~

converting, under sufficient conditions, **the** ~~a~~ compound **of** ~~according to~~ formula 21 ~~as follows:~~



~~(21)~~

to a compound **of** ~~according to~~ formula **122** ~~122:~~

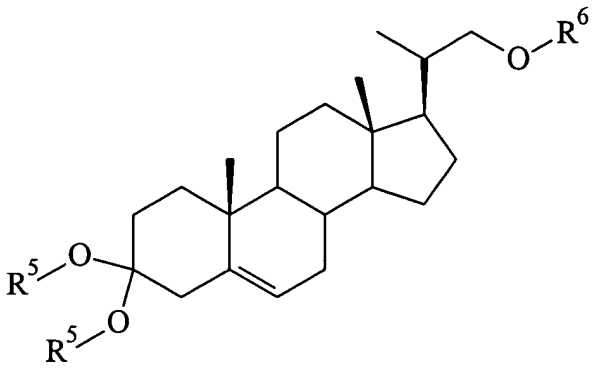


(122), ~~(122);~~

wherein

the R^5 groups are suitable protecting groups that can be the same or different, or the R^5 groups can join together to form a ring structure;

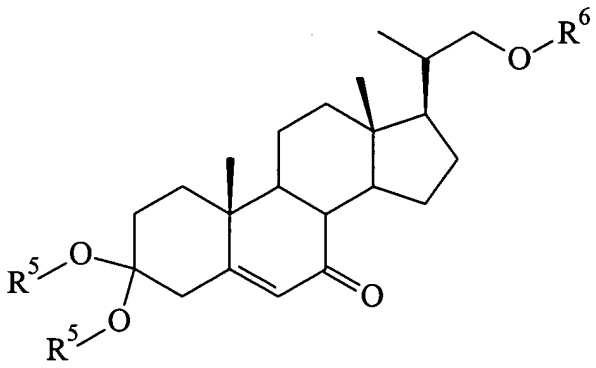
converting, under sufficient conditions, the compound **of** ~~according to~~ formula 122 to a compound **of** ~~according to~~ formula **123** ~~123:~~



(123),

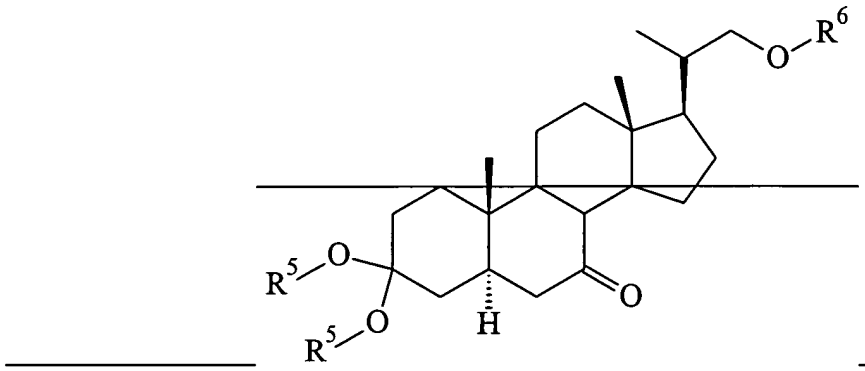
wherein R^6 is a suitable protecting group;

converting, under sufficient conditions, the compound **of** ~~according to~~ formula 123 to a compound **of** ~~according to~~ formula 124 ~~124:~~



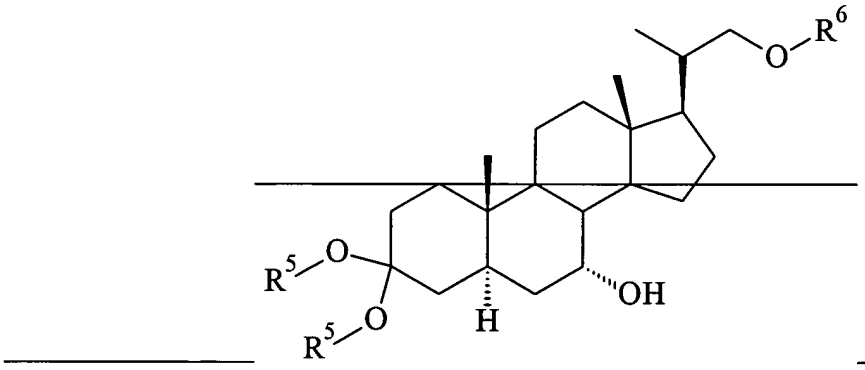
(124); **and**

converting, under sufficient conditions, the compound **of** ~~according to~~ formula 124 to **the** ~~a~~ compound **of** ~~according to~~ formula **125.** ~~125:~~



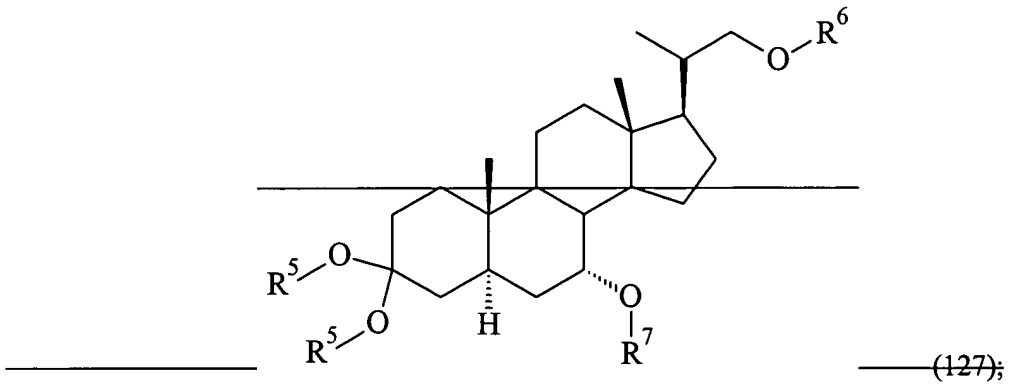
~~(125);~~

~~converting, under sufficient conditions, the compound according to formula 125 to a compound according to formula 126:~~



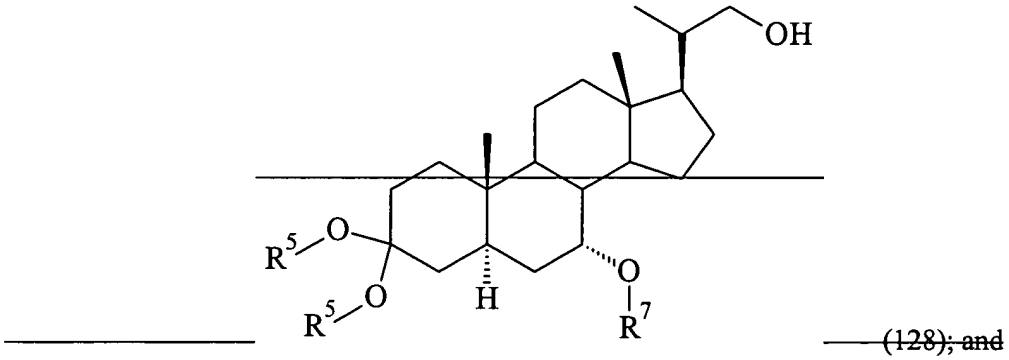
~~(126);~~

~~converting, under sufficient conditions, the compound according to formula 126 to a compound according to formula 127:~~



~~(127);~~

~~converting, under sufficient conditions, the compound according to formula 127 to a compound according to formula 128:~~



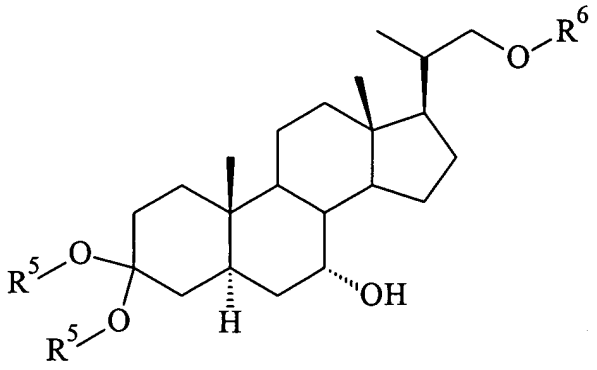
~~(128); and~~

~~converting, under sufficient conditions, the compound according to formula 128 into the compound according to formula 129.~~

48-53. (canceled)

54. (new): The method according to claim 41, wherein the compound of formula 125 is converted to the compound of formula 129 by

converting, under sufficient conditions, the compound of formula 125 to a compound of formula 126



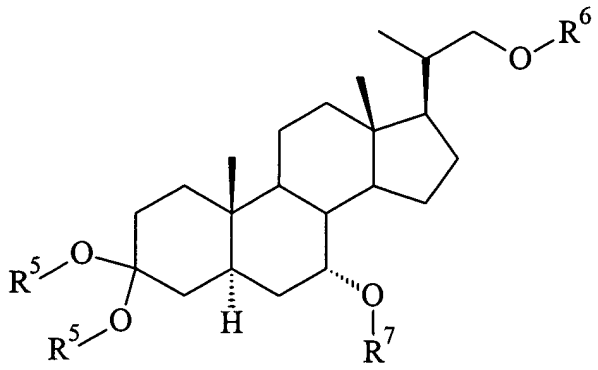
(126),

wherein

the R^5 groups are suitable protecting groups that can be the same or different, or the R^5 groups can join together to form a ring structure, and

R^6 is a suitable protecting group;

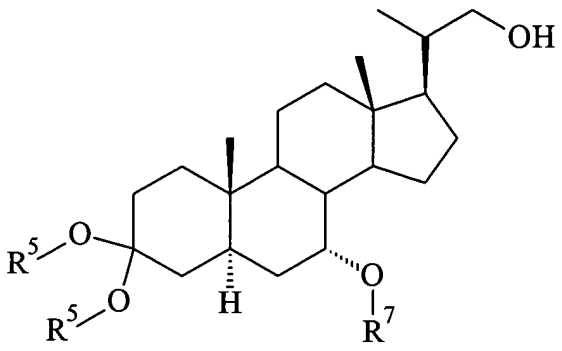
converting, under sufficient conditions, the compound of formula 126 to a compound of formula 127



(127),

wherein R^7 is a suitable protecting group;

converting, under sufficient conditions, the compound of formula 127 to a compound of formula 128

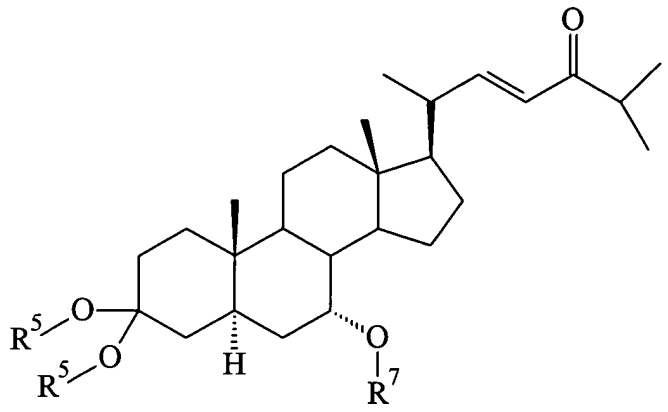


(128); and

converting, under sufficient conditions, the compound of formula 128 to the compound of formula 129.

55. (new): The method according to claim 41, wherein the compound of formula 129 is converted to the compound of formula 134 by

converting, under sufficient conditions, the compound of formula 129 to a compound of formula 132



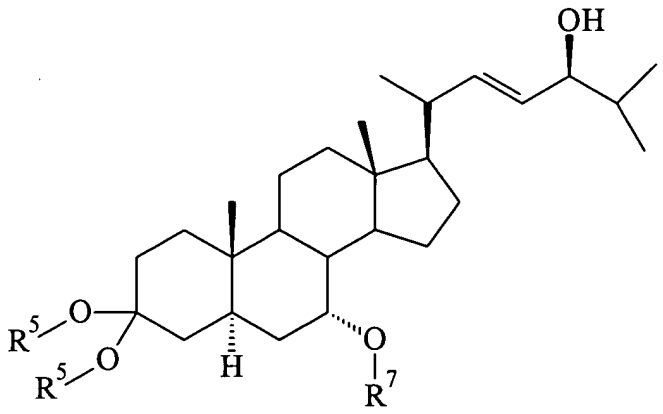
(132),

wherein

the R^5 groups are suitable protecting groups that can be the same or different, or the R^5 groups can join together to form a ring structure, and

R^7 is a suitable protecting group;

converting, under sufficient conditions, the compound of formula 132 to a compound of formula 133

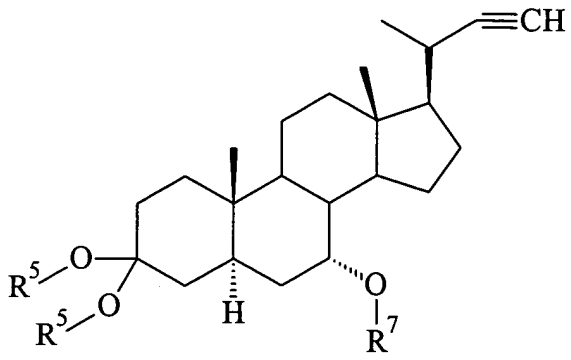


(133); and

converting, under sufficient conditions, the compound of formula 133 to the compound of formula 134.

56. (new): The method according to claim 41, wherein the compound of formula 129 is converted to the compound of formula 134 by

converting, under sufficient conditions, the compound of formula 129 to a compound of formula 115



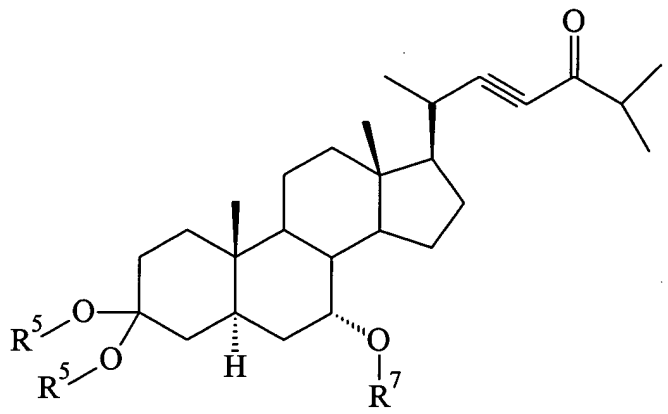
(115),

wherein

the R^5 groups are suitable protecting groups that can be the same or different, or the R^5 groups can join together to form a ring structure, and

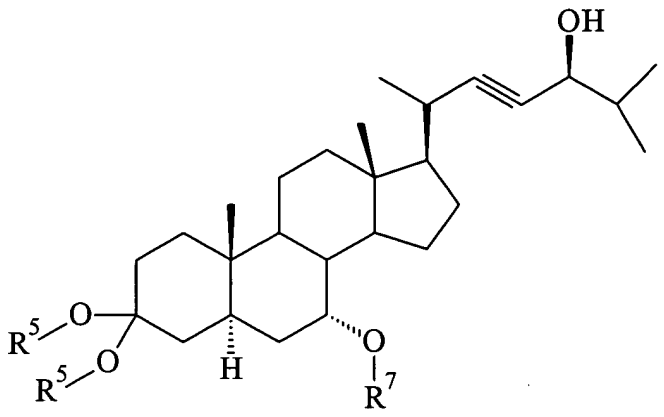
R^7 is a suitable protecting group;

converting, under sufficient conditions, the compound of formula 115 to a compound of formula 116



(116);

converting, under sufficient conditions, the compound of formula 116 to a compound of formula 117

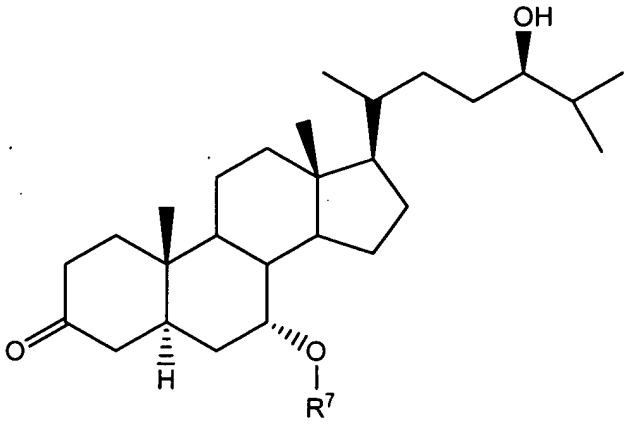


(117); and

converting, under sufficient conditions, the compound of formula 117 to the compound of formula 134.

57. (new): The method according to claim 41, wherein the compound of formula 134 is converted to the compound 37 by

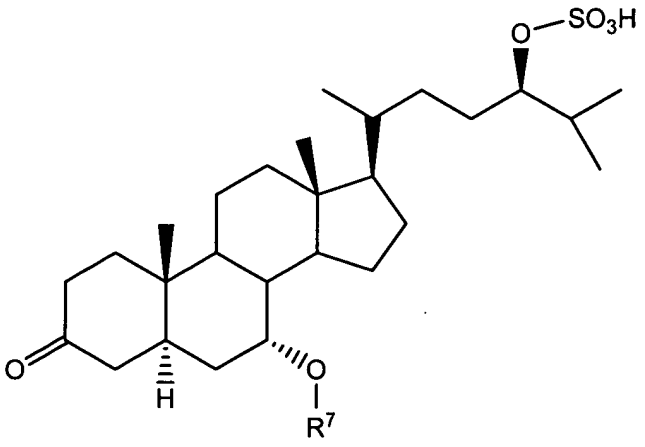
converting, under sufficient conditions, the compound of formula 134 to a compound of formula 135



(135),

wherein R^7 is a suitable protecting group;

converting, under sufficient conditions, the compound of formula (135) to a compound of formula 136



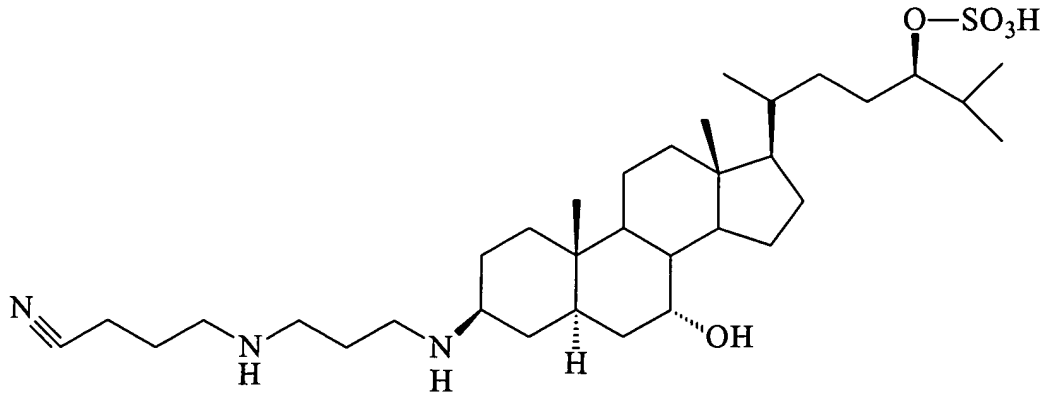
(136); and

converting, under sufficient conditions, the compound of formula 136 to the compound 37.

58. (new): The method according to claim 41, wherein the compound 37 is converted into squalamine by

converting, under sufficient conditions, the compound 37 into its corresponding potassium salt;

converting, under sufficient conditions, the potassium salt of the compound 37 into compound 43



(43); and

converting, under sufficient conditions, the compound 43 to squalamine or a salt thereof.

59. (new): The method according to claim 41, wherein the R^5 groups are independently selected from C_{1-6} alkyl.

60. (new): The method according to claim 41, wherein the R^5 groups join together to form a ring selected from the group consisting of an ethylene dioxy ring, a 1,3-propanedioxy ring, a 2-methylene-1,3-propanedioxy ring and a 2,2-dimethyl-1,3-propanedioxy ring.

61. (new): The method according to claim 41, wherein R^6 is selected from the group consisting of formyl, acetyl, propionyl, pivaloyl, cyanoacetyl, optionally substituted benzoyl, methoxycarbonyl, ethoxycarbonyl, benzyloxycarbonyl, optionally substituted benzyl, optionally substituted benzyloxymethyl (BOM), tetrahydrothiopyranyl, tetrahydrothiofuranyl, methylthiomethyl (MTM), trialkylsilyl, tetrahydropyranyl (THP), 2-methoxyethoxymethyl (MEM), and methoxymethyl (MOM).

62. (new): The method according to claim 61, wherein R^6 is a trialkylsilyl.

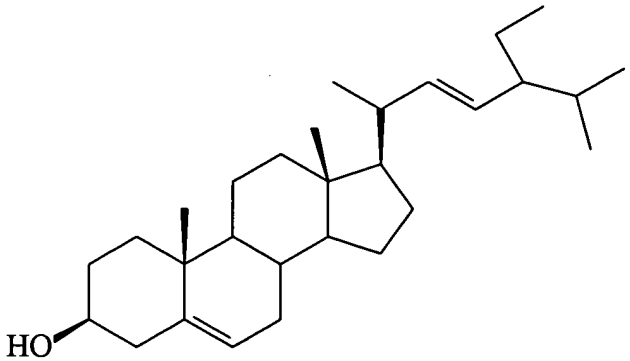
63. (new): The method according to claim 62, wherein R^6 is tert-butyldimethyl silyl.

64. (new): The method according to claim 41, wherein R^7 is selected from the group consisting of formyl, acetyl, propionyl, pivaloyl, cyanoacetyl, optionally substituted benzoyl, methoxycarbonyl, ethoxycarbonyl, benzyloxycarbonyl, optionally substituted benzyl, optionally substituted benzyloxymethyl

(BOM), tetrahydrothiopyranyl, tetrahydrothiofuranyl, methylthiomethyl (MTM), trialkylsilyl, tetrahydropyranyl (THP), 2-methoxyethoxymethyl (MEM), and methoxymethyl (MOM).

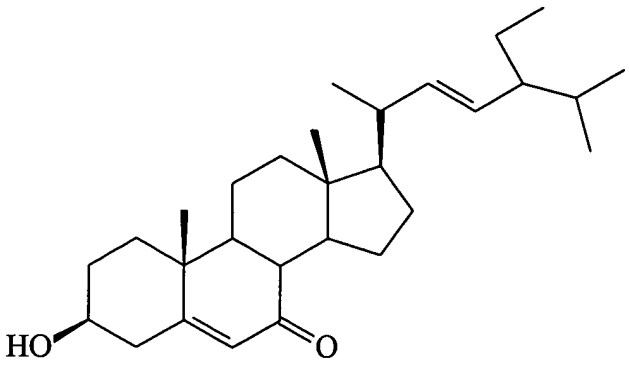
65. (new): The method according to claim 64, wherein R^7 is benzoyl.

66. (new): A method for preparing squalamine and salts thereof, comprising converting, under sufficient conditions, compound 50



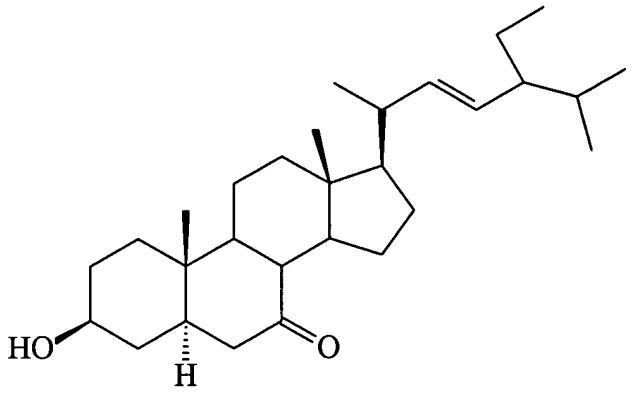
(50)

to compound 60



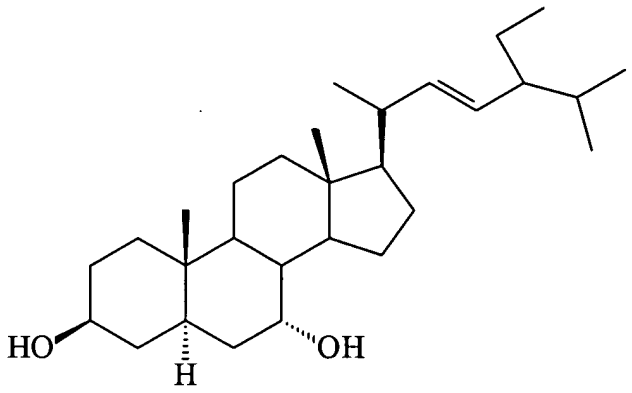
(60);

converting, under sufficient conditions, the compound 60 to compound 61



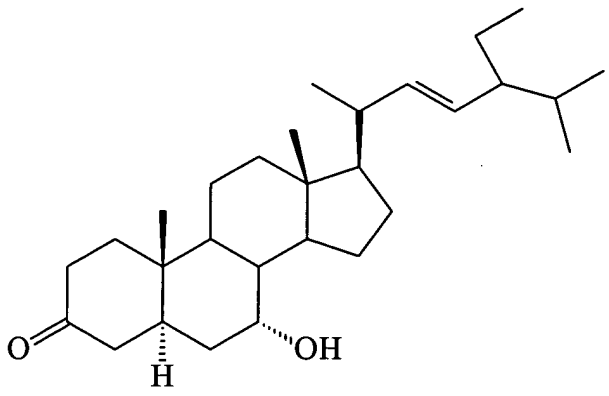
(61);

converting, under sufficient conditions, the compound 61 to compound 62:



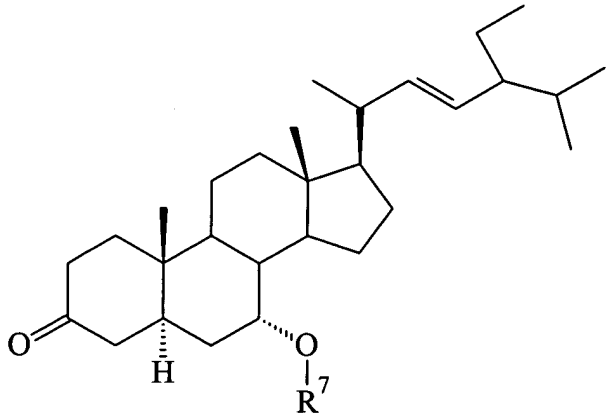
(62);

converting, under sufficient conditions, the compound 62 to compound 63:



(63);

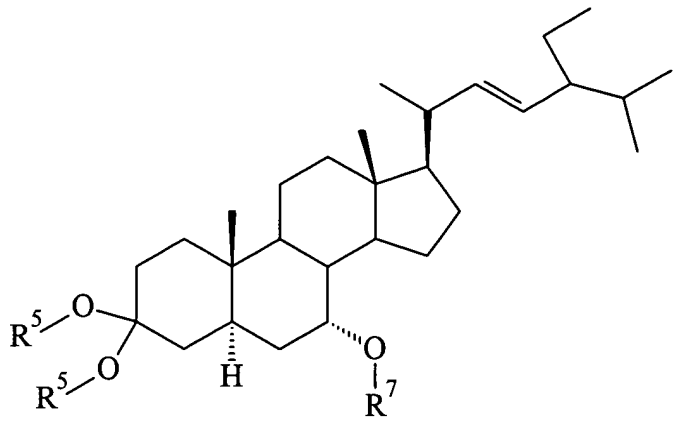
converting, under sufficient conditions, the compound 63 to a compound of formula 164



(164),

wherein R^7 is a suitable protecting group;

converting, under sufficient conditions, the compound of formula 164 to a compound of formula 165

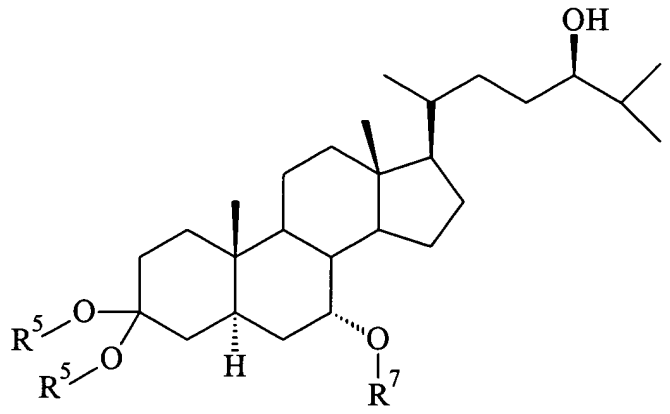


(165),

wherein the R^5 groups are suitable protecting groups that can be the same or different, or the R^5 groups can join together to form a ring structure;

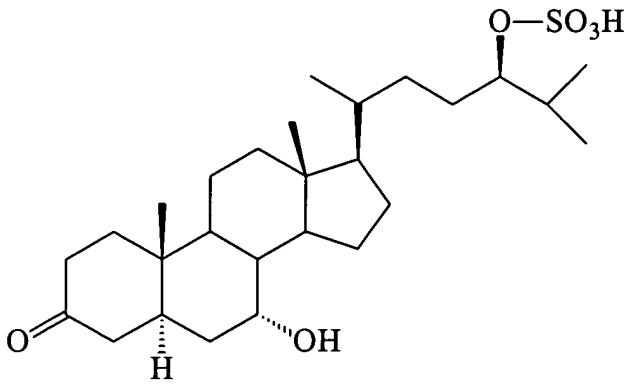
converting, under sufficient conditions, the compound of formula 165 to the compound of formula 129;

converting, under sufficient conditions, the compound of formula 129 to a compound of formula 134



(134);

converting, under sufficient conditions, the compound of formula 134 to compound 37



(37); and

converting, under sufficient conditions, the compound 37 to squalamine or a salt thereof.

67. (new): The method according to claim 66, wherein R^7 is selected from the group consisting of formyl, acetyl, propionyl, pivaloyl, cyanoacetyl, optionally substituted benzoyl, methoxycarbonyl, ethoxycarbonyl, benzyloxycarbonyl, optionally substituted benzyl, optionally substituted benzyloxymethyl (BOM), tetrahydrothiopyranyl, tetrahydrothiofuranyl, methylthiomethyl (MTM), trialkylsilyl, tetrahydropyranyl (THP), 2-methoxyethoxymethyl (MEM), and methoxymethyl (MOM).

68. (new): The method according to claim 67, wherein R^7 is benzoyl.